

## Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

### Vol. 64 No. 1

The correlation of the structure and phase behavior between sodium citrate/sodium lauryl benzene sulfonate/pentanol/water, and sodium <i>p</i> -toluene sulfonate/sodium lauryl benzene sulfonate/pentanol/water systems P.H. Yen and D.Y. Chao (Taipei, Taiwan) .....	1
Adsorption of <i>o</i> -cresol from aqueous solution on coal A. Gürses, S. Bayrakçeken and M.Ş. Gülaboğlu (Erzurum, Turkey) .....	7
Interaction of a polyanion with an oppositely charged fluorocarbon/hydrocarbon surfactant K. Esumi, K. Takehana, T. Nojima and K. Meguro (Tokyo, Japan) .....	15
Selective ion flotation of gold K.P. Galvin, S.K. Nicol and A.G. Waters (Newcastle, NSW, Australia) .....	21
Ensemble effects in the detachment of floating microspheres P. Somasundaran, (New York, NY, USA), R. Varbonov, S. Tchaliowska and I. Nishkov (Sofia, Bulgaria) .....	35
Surfactant structure and its relation to the Krafft point, cloud point and micellization: some empirical relationships T. Gu and J. Sjöblom (Bergen, Norway) .....	39
Preparation of a non-aqueous dispersion of sterically stabilized boehmite rods P.A. Buining, Y.S.J. Veldhuizen, C. Pathmanathan and H.N.W. Lekkerkerker (Utrecht, The Netherlands) .....	47
Zeta potential of anatase (TiO <sub>2</sub> ) in mixed solvents M. Kosmulski and E. Matijević (Potsdam, NY, USA) .....	57
Methods for quantitative diffuse reflectance FT-IR: adsorption densities of alcohols on silica powders T.J. Horr, J. Ralston, and R.St.C. Smart (Adelaide, SA, Australia) .....	67
Structure of adsorbed and desorbed proteins W. Norde and J.P. Favier (Wageningen, The Netherlands) .....	87
Book reviews .....	95

### Vol. 64 No. 2

An investigation into the nature of charge on the surface of papermaking woodpulp. 1. Charge/pH isotherms T.M. Herrington and J.C. Petzold (Reading, UK) .....	97
An investigation into the nature of charge on the surface of papermaking woodpulp. 2. Analysis of potentiometric titration data T.M. Herrington and J.C. Petzold (Reading, UK) .....	109
Interfacial activity of lactic acid extractants containing oligo-oxyethylene fragments I. Miesiąc and J. Szymanowski (Poznań, Poland), K. Schügerl (Hannover, Germany) and A. Sobczyńska (Poznań, Poland) .....	119
The effects of electrical charge on the adsorption of a weak cationic polyelectrolyte onto silica, silicon carbide and calcium fluoride B. Popping, A. Deratani and B. Seville (Thiais, France), N. Desbois, J.M. Lamarche and A. Foissy (Besancon, France) .....	125

## Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

### Vol. 64 No. 1

The correlation of the structure and phase behavior between sodium citrate/sodium lauryl benzene sulfonate/pentanol/water, and sodium <i>p</i> -toluene sulfonate/sodium lauryl benzene sulfonate/pentanol/water systems P.H. Yen and D.Y. Chao (Taipei, Taiwan) .....	1
Adsorption of <i>o</i> -cresol from aqueous solution on coal A. Gürses, S. Bayrakçeken and M.Ş. Gülaboğlu (Erzurum, Turkey) .....	7
Interaction of a polyanion with an oppositely charged fluorocarbon/hydrocarbon surfactant K. Esumi, K. Takehana, T. Nojima and K. Meguro (Tokyo, Japan) .....	15
Selective ion flotation of gold K.P. Galvin, S.K. Nicol and A.G. Waters (Newcastle, NSW, Australia) .....	21
Ensemble effects in the detachment of floating microspheres P. Somasundaran, (New York, NY, USA), R. Varbonov, S. Tchaliowska and I. Nishkov (Sofia, Bulgaria) .....	35
Surfactant structure and its relation to the Krafft point, cloud point and micellization: some empirical relationships T. Gu and J. Sjöblom (Bergen, Norway) .....	39
Preparation of a non-aqueous dispersion of sterically stabilized boehmite rods P.A. Buining, Y.S.J. Veldhuizen, C. Pathmanathan and H.N.W. Lekkerkerker (Utrecht, The Netherlands) .....	47
Zeta potential of anatase (TiO <sub>2</sub> ) in mixed solvents M. Kosmulski and E. Matijević (Potsdam, NY, USA) .....	57
Methods for quantitative diffuse reflectance FT-IR: adsorption densities of alcohols on silica powders T.J. Horr, J. Ralston, and R.St.C. Smart (Adelaide, SA, Australia) .....	67
Structure of adsorbed and desorbed proteins W. Norde and J.P. Favier (Wageningen, The Netherlands) .....	87
Book reviews .....	95

### Vol. 64 No. 2

An investigation into the nature of charge on the surface of papermaking woodpuls. 1. Charge/pH isotherms T.M. Herrington and J.C. Petzold (Reading, UK) .....	97
An investigation into the nature of charge on the surface of papermaking woodpuls. 2. Analysis of potentiometric titration data T.M. Herrington and J.C. Petzold (Reading, UK) .....	109
Interfacial activity of lactic acid extractants containing oligo-oxyethylene fragments I. Miesiąc and J. Szymanowski (Poznań, Poland), K. Schügerl (Hannover, Germany) and A. Sobczyńska (Poznań, Poland) .....	119
The effects of electrical charge on the adsorption of a weak cationic polyelectrolyte onto silica, silicon carbide and calcium fluoride B. Popping, A. Deratani and B. Seville (Thiais, France), N. Desbois, J.M. Lamarche and A. Foissy (Besancon, France) .....	125

Deposition of <i>S. sobrinus</i> as a function of fluid shear M. Breuer, D. Shalit, R.G. Hill and J.B. Smulow (Boston, MA, USA) .....	135
Forced advancement and retraction of polar liquids on a low energy surface J.G. Petrov and P.G. Petrov (Sofia, Bulgaria) .....	143
The kinetics of particle and polymer adsorption by total internal reflection fluorescence D. Parsons and R. Harrop (Deeside, UK) and E.G. Mahers (Bebington, UK) .....	151
Aggregation of homologous <i>n</i> -alkylpyridinium halides and of methylcollidinium bromide in chloroform J. Czapkiewicz (Krakow, Poland) .....	161
The surface properties of pure and modified precipitated calcium carbonate by adsorption of nitrogen and water vapor T. Ahsan (Durham, NC, USA) .....	167

*Vol. 64 Nos. 3/4*

Adsorption studies of sodium humate on Indian iron ore fines S. Mahiuddin, I. Suryanarayan, N.N. Dutta and P.C. Borthakur (Jorhat, India) .....	177
The effects of oxyethylene and methylene groups on the interaction between anionic and cationic surfactants X.-G. Li and G.-X. Zhao (Beijing, China) .....	185
Isosteric heats of <i>n</i> -hexane sorption on $M_x Na_{56-2x} Y$ ( $M = Co, Ni, Zn, Cd$ ) R.V. Hercigonja and V.M. Radak (Belgrade, Yugoslavia) .....	191
Mass transfer analysis in a microemulsion system K. Anandakrishnan and P. Neogi (Rolla, MO, USA) and S.E. Friberg (Potsdam, NY, USA) .....	197
Rheological behaviour of concentrated surfactant solutions and emulsions R. Pal (Waterloo, Ont., Canada) .....	207
Wood pulp washing. 1. Complex formation between kraft lignin and cationic polymers P. Li and R. Pelton (Hamilton, Canada) .....	217
Wood pulp washing. 2. Displacement of aqueous lignin from model beds with cationic polymer solutions P. Li and R. Pelton (Hamilton, Canada) .....	223
Dispersibility maps for treated titanium dioxide powders Y.-J. Lee, D.L. Fekete and I. Manas-Zloczower (Cleveland, OH, USA) .....	235
Contribution of ionic correlations to excess free energy and disjoining pressure of thin liquid films. 1. Electric double layer inside the film P.A. Kralchevsky and V.N. Paunov (Sofia, Bulgaria) .....	245
Contribution of ionic correlations to excess free energy and disjoining pressure of thin liquid films. 2. Electric double layers outside the film V.N. Paunov and P.A. Kralchevsky (Sofia, Bulgaria) .....	265
On the deposition of phospholipids onto planar supports with the Langmuir-Blodgett technique using factorial experimental design. 1. Screening of various factors and supports Å. Sellström, I. Gustafson, P.-Å. Ohlsson, G. Olofsson and G. Puu (Umeå, Sweden) .....	275
On the deposition of phospholipids onto planar supports with the Langmuir-Blodgett technique using factorial experimental design. 2. Optimizing lipid composition for maximal adhesion to platinum substrates Å. Sellström, I. Gustafson, P.-Å. Ohlsson, G. Olofsson and G. Puu (Umeå, Sweden) .....	289
Emulsifying properties of covalent protein-dextran hybrids E. Dickinson and M.G. Semenova (Leeds, UK) .....	299
Solvent relaxation NMR: bound fraction determination for sodium poly(styrene sulphonate) at the solid/solution interface T. Cosgrove, T.M. Obey and M. Taylor (Bristol, UK) .....	311
Kinetics of heterocoagulation. 1. A comparison of theory and experiment H. Kihira, N. Ryde and E. Matijević (Potsdam, NY, USA) .....	317
<i>Announcement</i> .....	325
<i>Author Index</i> .....	327
<i>Subject Index</i> .....	328
<i>Contents (Vol. 64)</i> .....	330